

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently Amended) A method for wireless and non-contacting power and information transport in systems which include fixed and moving structural parts and a three-phase motor that includes a stator with three-phase windings and a secondary part with three-phase windings as a drive for the moving structural parts, comprising:

using the three-phase motor in the same way for wireless transmission of power and information, wherein the three-phase windings of the stator and the three-phase windings of the secondary part are connected in a star configuration;

transmitting the power via the inductive coupling between the stator and the secondary part by applying an alternating current, whose frequency is higher than the fundamental and is preferably three times the power supply system frequency, to the stator; and

supplying devices, arranged on the moving structural parts of the system, with at least one of power and information.

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Previously Presented) The method as claimed in claim 1, wherein the information is transmitted via inductive coupling between the stator part and the secondary part, with the data being modulated and being transmitted in the form of signals at a considerably higher frequency than the power supply system frequency.
6. (Withdrawn) An apparatus, comprising:
a three-phase motor which includes a stator and a secondary part, wherein the stator and the secondary part respectively have three-phase windings with the same number of pole pairs and with the same pole pitch.
7. (Withdrawn) The apparatus as claimed in claim 6, wherein the three-phase motor is a linear motor.
8. (Withdrawn) The apparatus as claimed in claim 6, wherein the three-phase motor is a rotating motor.
9. (Withdrawn) The apparatus as claimed in claim 6, wherein the windings of the stator are connected to at least one of the three-phase power supply system and to an associated motor controller, with the windings of the secondary part being connected in star or delta.
10. (Withdrawn) The apparatus as claimed in claim 9, wherein the motor controller is a frequency converter.

11. (Withdrawn) The apparatus as claimed in claim 10, wherein the free ends of the windings of the secondary part are connected to a 6-pulse rectifier if connected in star, and the nodes of the windings of the secondary part are connected to a 6-pulse rectifier, if connected in delta.
12. (Withdrawn) The apparatus as claimed in claim 6, wherein an energy storage element whose energy storage state is controllable is provided for power transmission.
13. (Withdrawn) The apparatus as claimed in claim 12, wherein the energy storage element is a capacitor.
14. (Withdrawn) The apparatus as claimed in claim 6, wherein the voltage across the energy storage element is kept virtually constant via a controllable switch, independently of the power drawn and of the speed of the secondary part.
15. (Withdrawn) The apparatus as claimed in claim 6, wherein a coding device is provided for transmission of data as information.
16. (Withdrawn) The apparatus as claimed in claim 15, wherein a control device enables the coding device to transmit message telegrams.
17. (Withdrawn) The apparatus as claimed in claim 6, wherein at least one coupling unit is provided.

18. (Withdrawn) The apparatus as claimed in claim 16, wherein the coupling unit includes a high-frequency transformer with four windings, and three coupling capacitors.

19. (Withdrawn) The apparatus as claimed in claim 7, wherein at least one transport vehicle is provided above the stator of the linear motor, and wherein sensors are provided, by which the location of the vehicle above the stator is detectable.

20. (Cancelled)

21. (Previously Presented) An apparatus for carrying out the method of claim 1, comprising:

the three-phase motor, including a stator and a secondary part, wherein the stator and the secondary part respectively have three-phase windings with the same number of pole pairs and with the same pole pitch.

22. (Withdrawn) The apparatus as claimed in claim 12, wherein the energy storage element is at least one of a so-called supercap and a rechargeable battery.

23. (Withdrawn) An apparatus, comprising:

a three-phase motor, including a stator and a secondary part, wherein the stator and the secondary part respectively have three-phase windings with the same number of pole pairs and with the same pole pitch, and wherein the three-phase motor is useable in the same way for wireless transmission of power and information.

24. (Withdrawn) The apparatus as claimed in claim 23, wherein the three-phase motor is useable as a drive for moving structural parts and for supplying devices, arranged on the moving structural parts, with at least one of power and information.

25. (New) The method as claimed in claim 1, wherein the alternating current is applied without phase shift.